

LANUFENE LLF 181N

MFI 1.0

Linear Low Density Polyethylene

Density 0.918

Description

LANUFENE LLF 181N is a linear low density polyethylene for general purpose blown film extrusion with high mechanical properties and good process-ability. LANUFENE LLF 181N contains neither slip additive nor anti-blocking agent. The film produced from this resin characteristically exhibits good toughness, and outstanding puncture resistance.

Typical Properties

Property	ASTM Method	Unit	Value ⁽¹⁾
Resin Properties ⁽²⁾			
Melt Index, 190°C, 21.6 kg	D1238	g/10 min	1.0
Density, @ 23°C	D1505	g/cm ³	0.918
Ultimate Tensile Strength	D638	MPa	21
Elongation	D638	%	800
Vicat Softening Temperature	D1505	°C	99
Low Temperature Brittleness	D746	°C	< -70
Film Properties ⁽³⁾			
Tensile Strength at Break, MD/TD	D882	MPa	40/32
Elongation at Break, MD/TD	D882	%	750/700
1% Secant Modulus, MD/TD	D882	MPa	220/260
Dart Impact, F ₅₀	D1709/A	g	150
Haze	D1003	%	15
Gloss, 45°	D2457	-	53

1. Values are typical and should not to be interpreted as specification

2. Test specimen prepared from compression molded sheet made according to ASTM D1926.

3. The film property has been measured on 38µm film thickness, 2:1 blow-up ratio.

Application

LANUFENE LLF 181N is particularly suitable for blending with LLDPE and/or HDPE, Co-extrusion, heavy duty bags and stretch film application.

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Processing Conditions

LANUFENE LLF 181N can be extruded on convention LLDPE blown film extruder. A good balance of film properties is achieved at Blow-Up Ratio (BUR) between 2:1 and 3:1. Recommended melt temperature is 190 - 220°C.

Food Contact Regulations

LANUFENE LLF 181N complies with food packing and food regulations in most countries. If required, please contact us for details.

Storage & Handling

LANUFENE LLF 181N should be stored in dry conditions at temperature below 50°C and protected from UV-light. Improper storage can initiate degradation with resulting order generation and color changes.

Safety

LANUFENE LLF 181N is not classified a dangerous preparation. Material Safety Data Sheet is available upon request.

Packaging

The standard packaging of LANUFENE LLF 181N is 25kg PE FFS bag with pallet and PE shrink wrapping. Big bags, 500/1,000kg, are available.
